

a first interface establishing device (30; 31; 32) connected between said first network control device (20; 21) and a transmitting network (4);

**wherein**

    said first communication device (1) and said first network control device (20; 21) are connected such that a use signal (US) and a control signal (CS) are sent separately to said first network control device (20; 21);

    said control signal (CS) represents a tone signal;

    said first network control device (20; 21) and said first interface establishing device (30; 31; 32) are connected such that said use signal (US) and said control signal (CS) are sent separately to said first interface establishing device (30; 31; 32),

    said first interface establishing device (30) is adapted to send said control signal (CS) over said transmitting network (4); and

    a tone generation means (50c; 61a; 72a) is provided on the far-end side of the network for receiving said control signal after transmission through said transmitting network (4) and for generating said tone signal in response to said control signal (CS).

60. (NEW) A communication system according to claim 59,

**wherein**

    said first interface establishing device (30) comprises a compressing means (30a) for compressing said use signal, the compressed signal being sent over said transmitting network (4).

61. (NEW) A communication system according to claim 60, further comprising

a second interface establishing device (50) connected to said transmitting network (4); wherein

    said second interface establishing device (50) comprises a decompressing means (50a) for decompressing said use signal (US) received via said transmitting network (4), and said tone generation means (50c).

62. (NEW) A communication system according to claim 61, **wherein** further comprising

    a second communication device (7); and  
    a second network control device (60); wherein

    said second interface establishing device (50) is adapted to combine said use signal (US) and said tone signal (TS); and

    said network control device (60) is adapted to receive said combined signal and to send it to said second communication device (7).

63. (NEW) A communication system according to claim 60, **wherein** further comprising

    a second interface establishing device (51) connected to said transmitting network (4); and

    a second network control device (61; 62); wherein

    said second interface establishing device (51; 52) comprises

        a decompressing means (51a; 52a) for decompressing said use signal received via said transmitting network (4); and

a control transfer means receiving said control signal and sending said control signal to said second network control device (61; 62), wherein said second interface establishing device (51; 52) is adapted to send said use signal (US) to said second network control device (61; 62).

64. (NEW) A communication system according to claim 63, wherein further comprising

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a second communication device (7); wherein  
said second network control device (61) comprises said tone generation means (61a); and

    said second network control device (61) is adapted to combine said use signal and said tone signal (TS) and to send the combined signal to said second communication device (7).

65. (NEW) A communication system according to claim 63, wherein further comprising

    a second communication device (72); wherein  
    said second network control device (62) is adapted to send said control signal (CS) and said use signal (US) separately to said second communication device (72).

66. (NEW) A communication system according to claim 65, wherein

said second communication device (72) comprises said tone generation means (72a).

67. (NEW) A communication system according to claim 59, **wherein** said tone signal generated in response to said control signal (TS) is a DTMF signal.

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68. (NEW) A communication system according to claim 59, **wherein** said first communication means (1) is adapted to generate said control signal in response to an operation of a key.

69. (NEW) A communication system according to claim 59, **wherein** said transmitting network (4) is an IP based network.

70. (NEW) A communication system according to claim 59, **wherein** said first communication device (1) is a mobile phone.

71. (NEW) A communication system according to claim 59, **wherein** said first communication device (1) is a fixed phone.

72. (NEW) A communication system according to claim 59, **wherein** said second communication device (7; 72) is a mobile phone.

73 (NEW) A communication system according to claim 59, **wherein** said second communication device (7; 72) is a fixed phone.

74. (NEW) A communication system according to claim 59, **wherein** said first network control device (21) and said first interface establishing means (31) are constructed as one unit.

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75. (NEW) A communication system according to claim 59, **wherein** said first network control device (20) and said first interface establishing means (30) are constructed as separate units.

76. (NEW) A communication system according to claim 59, **wherein** said second network control device (50; 51) and said first interface establishing means (60; 61; 62) are constructed as one unit.

77. (NEW) A communication system according to claim 59, **wherein** said first network control device (50; 51) and said first interface establishing means (60; 61; 62) are constructed as separate units.

78. (NEW) A communication system according to claim 59, further comprising a network communication device (73) connectable directly to said transmitting network (4) such that said control signal (CS) and said use signal (USC) is transmitted from said first interface establishing device (30) to said network communication device (73).

79. (NEW) A communication system according to claim 78, **wherein** said transmitting network (4) is an IP based network and said network communication device (73) is an IP phone.

80. (NEW) A communication method for a communication system comprising a first communication device (1), a first network control device (20) for controlling a first network to which said first communication device (1) is connected and a first interface establishing device (30) connected between said first network control device (20) and a transmitting network (4); said method being **wherein** comprising the steps of

B3 sending (**S1**) a use signal (**US**) and a control signal (**CS**) from said first communication device (1) to said first network control device (20) separately; wherein said control signal (**CS**) represents a tone signal;

sending (**S2**) said use signal (**US**) and said control signal (**CS**) from said first network control device (20) to said first interface establishing device (30) separately;

receiving said control signal (**CS**) from said first network control device (20) and sending (**S3**) said control signal (**CS**) over said transmitting network (4); and

receiving said control signal after transmission through said transmitting network (4) by a tone generation means (50c; 61a; 72a) provided on the far-end side of the network;

and generating (**S6**) said tone signal in response to said control signal (**CS**).

81. (NEW) A method according to claim 80, **wherein** further comprising the step (S4) of compressing said use signal (US), the compressed signal (USC) being sent over said transmitting network (4).

82. (NEW) A method according to claim 81, **wherein** further comprising the steps of receiving (S5) said compressed use signal (USC) and said control signal (CS) in a communication system on a far-end side of said transmitting network (4).

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83. (NEW) A method according to claim 80, **wherein** said step of generating (S6) said tone signal is performed in a second interface establishing means (50).

84. (NEW) A method according to claim 80, **wherein** said step of generating (S6) said tone signal (TS) is performed in a second network control device (61).

85. (NEW) A method according to claim 84, **wherein** said step of generating (S6) said tone signal (TS) is performed in a second communication device (72).